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FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FILING DATE 09/664,500 09/18/2000 John W. Bates 1942.0030000 **EXAMINER** 22879 7590 01/26/2005 **HEWLETT PACKARD COMPANY** STEVENS, ROBERTA A P O BOX 272400, 3404 E. HARMONY ROAD ART UNIT PAPER NUMBER INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400 2665

DATE MAILED: 01/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
Office Action Summary		09/664,500	BATES ET AL.	
		Examiner	Art Unit	
		Roberta A Stevens	2665	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).				
Status				
1)⊠	Responsive to communication(s) filed on 25 /	August 2004.		
·		is action is non-final.		
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.			
Disposition of Claims				
5)□ 6)⊠ 7)⊠	Claim(s) 1,2,4-10,12,13 and 15-17 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1,2,4-6,8, 10,11, 13 and 15-1 is/are rejected. Claim(s) 7,12 and 17 is/are objected to. Claim(s) are subject to restriction and/or election requirement.			
Application Papers				
9) The specification is objected to by the Examiner.				
10)[10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.			
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s)				
1) 🛛 Notic	ce of References Cited (PTO-892)	4) Interview Summa		
3) 🔲 Infon	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date	Paper No(s)/Mail 5) Notice of Informal 6) Other:	Date Patent Application (PTO-152)	

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Claim Rejections - 35 USC § 112

1. Claims 15-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 15-17 are dependent on cancelled claim 14. The Examiner examined claim 15 as being dependent on claim 13.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 2, 4-6, 8, 10, 11, 13, 15-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Blumenau (U.S. 2003/0115324 A1).
- 3. Regarding claim 1, Blumenau teaches (fig. 3 and page 4, paragraphs 43-46) a storage area network; at least one server; a plurality of storage devices; and a storage allocator, connected between the server and the plurality of storage devices, storage allocator including a read/write storage request parser that receives from the server a read/write storage request and extracts therefrom a host ID parameter, a target LUN parameter and a target host bus adapter parameter; and a LUN mapper that receives from the read/write storage request parser the host

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ID parameter, the target LUN parameter and the target host bus adapter parameter and maps based thereon to at least one physical LUN, wherein the physical LUN represents at least one storage location within the plurality of storage devices.

- 4. Regarding claim 2, Blumenau teaches (page 4 paragraph 43) the LUN mapper comprises at least one LUN map.
- 5. Regarding claim 4, Blumenau teaches (fig. 3 and page 4 paragapgh43-46) the LUN mapper uses the host ID parameter to select one of the LUN map corresponding to the host ID parameter.
- 6. Regarding claims 5, 11 and 16, Blumenau teaches (page 4, paragraphs 43-46) the LUN mapper applies the target LUN and the target HBA to the selected LUN map to locate the physical LUN in the LUN map.
- 7. Regarding claim 6, Blumenau teaches (page 4, paragraphs 43-46 and fig. 3) the LUN mapper issues the received request to at least one storage device corresponding to one physical LUN, wherein the storage device is located in the plurality of storage devices.
- 8. Regarding claim 8, Blumenau teaches (fig. 3 and page 4, paragraphs 43-46) a method for allocating storage area network, comprising, receiving a read/write storage request from a host computer; extracting a host ID parameter, a target LUN parameter and a target host bus adapter

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parameter from the read/write storage request; determining a physical LUN based upon the host ID parameter, the target LUN parameter and the target host bus adapter parameter; and issuing a read/write storage request to a storage device in a storage area network, wherein the storage device correspond to the determined physical LUN.

- 9. Regarding claim 10, Blumenau teaches (page 4) storing at least one LUN map.
- 10. Regarding claim 13, Blumenau teaches (fig. 3 and page 4, paragraphs 43-46) a system for allocating storage area network, comprising, means for receiving a read/write storage request from a host computer; means for extracting a host ID parameter, a target LUN parameter and a target host bus adapter parameter from the read/write storage request; means for determining a physical LUN from the host ID parameter, the target LUN parameter and the target host bus adapter parameter; and means for issuing a read/write storage request to a storage device in a storage area network, wherein the storage device correspond to the determined physical LUN.
- 11. Regarding claim 15, Blumenau teaches (page 4 and fig. 3) means for storing at least one LUN map.

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Allowable Subject Matter

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12. Claims 7, 12 and 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

- 13. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- 14. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.
- 15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roberta A Stevens whose telephone number is 571-272-3161. The examiner can normally be reached on M-F 9:00am-5:30pm.

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16. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Huy Vu can be reached on 571-272-3155. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

17. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Roberta A Stevens Examiner Art Unit 2665

> STEVEN NGUYEN PRIMARY EXAMINER

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